

Title (en)
SUBSTRATE-STORING CONTAINER

Title (de)
SUBSTRATLAGERUNGSBEHÄLTER

Title (fr)
RECEPTACLE DE STOCKAGE DE SUBSTRATS

Publication
EP 1548820 A1 20050629 (EN)

Application
EP 03795227 A 20030819

Priority
• JP 0310465 W 20030819
• JP 2002265596 A 20020911
• JP 2002275495 A 20020920

Abstract (en)
The present invention is to provide a substrate storage container that can prevent pollution of substrates and clean environments for substrate processing resulting from generation of abraded particles. <?>The substrate storage container includes: a front-opening box type container body for storing a multiple number of substrates in alignment therein; a door for opening and closing the open front of the container body in a sealing manner; and inner-pressure adjustment devices attached to the mounting ports in the container body and the door for adjusting the pressure inside the container body closed with the door. The inner-pressure adjustment device is configured of an elastic attachment cylinder, a filter support structure fitted into, and protected by, the attachment cylinder and a multiple number of filters held inside the filter support structure. Since the inner-pressure adjustment device can be set by mounting an attachment cylinder of a simple structure by use of elastic deformation to the attachment hole, which is provided for the container body and/or the door, there is no need of forming screw holes which need time and effort, hence the mold for forming the container body will never be complicated in its structure. <IMAGE>

IPC 1-7
H01L 21/68; B65D 85/90; B65D 81/20

IPC 8 full level
H01L 21/68 (2006.01); **H01L 21/673** (2006.01)

CPC (source: EP KR US)
H01L 21/02 (2013.01 - KR); **H01L 21/67369** (2013.01 - EP US); **H01L 21/67383** (2013.01 - EP US); **H01L 21/67393** (2013.01 - EP US);
H01L 21/68 (2013.01 - KR)

Cited by
EP3082154A1; EP2453473A4; EP3229074A1; US8800774B2; US10768524B2; US10475682B2; WO2017035256A1; WO2007008555A3

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1548820 A1 20050629; **EP 1548820 A4 20070606**; **EP 1548820 B1 20101215**; DE 60335392 D1 20110127; KR 100615761 B1 20060828;
KR 20050040941 A 20050503; TW 200404722 A 20040401; TW I278415 B 20070411; US 2005247594 A1 20051110; US 7823730 B2 20101102;
WO 2004025721 A1 20040325

DOCDB simple family (application)
EP 03795227 A 20030819; DE 60335392 T 20030819; JP 0310465 W 20030819; KR 20057004151 A 20050310; TW 92124230 A 20030902;
US 52550205 A 20050223